Revision: 07/29/2022 Supersedes Revision: 04/28/2022

		1. Product and Cor	npany Identi	ification		
Product Code:		Z-BIOHOLD				
Product Name:		BIO-HOLD				
Company Name:		Stoller Phone Number:		Phone Number:		
		9090 Katy Freeway		1 (713)461-1493		
		Suite 400 Houston, TX 77024				
Web site ad	darass	www.stollerusa.com				
Email addr		compliance@stollerusa.com				
Emergency Contact:		CHEMTREC, In the US and		1 (800)424-9300		
		CHEMTREC, From other co		+1 (703)527-3887		
Information:				1 (800)539-5283		
Intended Use:		For agricultural use only				
		2. Hazards I	dentificatior	1		
Eye Irritation	n, Category 2B					
_						
GHS Signal \	Word:	Warning				
GHS Hazard		H320 - Causes eye irritation.				
		P264 - Wash hands thoroughly after handling.				
GHS Respon	ise Phrases:	P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove				
		contact lenses, if present and easy to do. Continue rinsing.				
		P337+313 - If eye irritation persists, get medical advice/attention.				
		,	persists, get medic	al advice/attention.		
-	and Disposal	No phrases apply.	persists, get medic	al advice/attention.		
GHS Storage Phrases:	e and Disposal		oersists, get medic	al advice/attention.		
-	alth Effects	No phrases apply.	-	al advice/attention. nown. Expected toxicity hazard: slight to		
Phrases: Potential Hea	alth Effects	No phrases apply. Chronic: Expected toxicity ha moderate.	azard: slight Not ki			
Phrases: Potential Hea (Acute and C	alth Effects hronic):	No phrases apply. Chronic: Expected toxicity ha moderate.	azard: slight Not ki rs may cause sore	nown. Expected toxicity hazard: slight to		
Phrases: Potential Hea (Acute and C Inhalation:	alth Effects hronic):	No phrases apply. Chronic: Expected toxicity ha moderate. Prolonged exposure to vapo	azard: slight Not ki rs may cause sore through the skin.	nown. Expected toxicity hazard: slight to e throat and irritation of respiratory tract.		
Phrases: Potential Hea (Acute and C Inhalation: Skin Contact	alth Effects hronic):	No phrases apply. Chronic: Expected toxicity ha moderate. Prolonged exposure to vapo May be harmful if absorbed to	azard: slight Not ki rs may cause sore through the skin. uuse mild to severe	nown. Expected toxicity hazard: slight to e throat and irritation of respiratory tract. e irritation, blurred vision.		
Phrases: Potential Hea (Acute and C Inhalation: Skin Contact Eye Contact:	alth Effects hronic):	No phrases apply. Chronic: Expected toxicity ha moderate. Prolonged exposure to vapo May be harmful if absorbed to Contact with product may ca May cause gastrointestinal in	azard: slight Not ki rs may cause sore through the skin. iuse mild to severe rritation with nause	nown. Expected toxicity hazard: slight to e throat and irritation of respiratory tract. e irritation, blurred vision. ea, vomiting and diarrhea.		
Phrases: Potential Hea (Acute and C Inhalation: Skin Contact Eye Contact:	alth Effects hronic):	No phrases apply. Chronic: Expected toxicity ha moderate. Prolonged exposure to vapo May be harmful if absorbed Contact with product may ca May cause gastrointestinal in Composition/Infor	azard: slight Not ki rs may cause sore through the skin. iuse mild to severe rritation with nause	nown. Expected toxicity hazard: slight to e throat and irritation of respiratory tract. e irritation, blurred vision. ea, vomiting and diarrhea.		
Phrases: Potential Hea (Acute and C Inhalation: Skin Contact Eye Contact: Ingestion:	alth Effects hronic): 	No phrases apply. Chronic: Expected toxicity ha moderate. Prolonged exposure to vapo May be harmful if absorbed Contact with product may ca May cause gastrointestinal in Composition/Infor	azard: slight Not ki rs may cause sore through the skin. tuse mild to severe rritation with nause mation on In	nown. Expected toxicity hazard: slight to e throat and irritation of respiratory tract. e irritation, blurred vision. ea, vomiting and diarrhea.		
Phrases: Potential Hea (Acute and C Inhalation: Skin Contact Eye Contact: Ingestion: CAS #	alth Effects hronic): 	No phrases apply. Chronic: Expected toxicity ha moderate. Prolonged exposure to vapo May be harmful if absorbed Contact with product may ca May cause gastrointestinal in Composition/Infor	azard: slight Not ki rs may cause sore through the skin. iuse mild to severe rritation with nause mation on In Concentration	nown. Expected toxicity hazard: slight to e throat and irritation of respiratory tract. e irritation, blurred vision. ea, vomiting and diarrhea. gredients RTECS #		
Phrases: Potential Hea (Acute and C Inhalation: Skin Contact Eye Contact: Ingestion: CAS # 2223656-17-3	alth Effects hronic): 	No phrases apply. Chronic: Expected toxicity ha moderate. Prolonged exposure to vapo May be harmful if absorbed for Contact with product may ca May cause gastrointestinal in Composition/Infor emical Name)	azard: slight Not ki rs may cause sore through the skin. use mild to severe rritation with nause mation on In Concentration	nown. Expected toxicity hazard: slight to e throat and irritation of respiratory tract. e irritation, blurred vision. ea, vomiting and diarrhea. gredients RTECS # NA		

Revision: 07/29/2022 Supersedes Revision: 04/28/2022

	4. First Aid Measures				
Emergency and First Aid Procedures:	Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. If necessary, also rescuers must be attended. Always bring with victim a copy of label and SDS of product to health professional.				
In Case of Inhalation:	Remove victim from exposure to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.				
In Case of Skin Contact:	Immediately wash affected area with abundant soap and water. Remove contaminated clothing, taking care not to impregnate eyes. Seek medical attention if irritation occurs.				
In Case of Eye Contact:	Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if irritation persists.				
In Case of Ingestion:	Immediately contact a physician or poison control center for treatment advice. Victim should drink milk, egg whites or large quantities of water and be induced to vomiting. Never give anything by mouth to someone who is unconscious, having convulsions or unable to swallow.				
Note to Physician:	Treat symptomatically and supportively.				
	5. Fire Fighting Measures				
Flash Pt:	N.A.				
Explosive Limits:	LEL: N.A. UEL: N.A.				
Autoignition Pt:	N.A.				
Suitable Extinguishing Media	a:Use water spray, dry chemical, carbon dioxide, or chemical foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.				
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.				
Flammable Properties and Hazards:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.				
Hazardous Combustion Products:	Toxic fumes may be generated at elevated temperatures.				
	6. Accidental Release Measures				
Protective Precautions, Protective Equipment and Emergency Procedures:	In case of a large spill, protect people by clearing and isolating the affected area. Such releases should be responded to by trained personnel using pre-planned procedures. In the event of an incidental release, minimum Personal Protective Equipment must be worn: latex or rubber gloves and boots, goggles or full face-shield and coveralls or long-sleeved shirt and pants.				
Environmental Precautions:	Do not allow to enter drains or waterways.				
Steps To Be Taken In Case Material Is Released Or Spilled:	It is necessary to contain the spill into the smallest area possible by diking, scooping, shoveling, etc., and recover liquid into an appropriate container for salvage or later use, labeling it accordingly. If product is clean, use it as intended, following original label directions; should it get contaminated, salvage for proper disposal as waste. Absorb residual product onto dry carrier such as dirt, sand or any other absorbent material, then put in covered, labeled containers and dispose of as dry waste in accordance with Federal, State and Local waste disposal regulations.				
	7. Handling and Storage				
Precautions To Be Taken in Handling:	Use with adequate ventilation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, or clothing. Avoid ingestion and inhalation. Use only in a well-ventilated area. Empty containers may contain residual liquid or vapors and therefore should be handled the same as full containers. Product must be kept in its original container, if repackaging for any reason, use vented caps.				
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Precautions To Be Taken in	We recommend storing pails a maximum of three pails high. Do not stack pallets. Store
Storing:	container tightly closed in a cool/well-ventilated dry place protected from sunlight above
	40 F. Do not allow container to freeze. Store locked up. Inspect all incoming containers
	before storage to ensure all are properly labeled and not damaged. Keep containers
	tightly closed when not in use.

Other Precautions:

Do not contaminate water when disposing of equipment wash water. Do not reuse empty container.

8. Exposure Controls/Personal Protection

57-13-6 1310-58-3 7631-95-0 Recommende Limits: Respiratory Ec (Specify Type)	quipment	e(VI) No occupational ex	No data. No data. No data. No data. posure limits have been est	No data. No data. No data. No data. tablished for this mixture.	No data. No data. No data. No data.	
1310-58-3 7631-95-0 Recommende Limits: Respiratory Ec (Specify Type)	Potassium hydrox Sodium molybdate d Exposure quipment	e(VI) No occupational ex	No data. No data.	No data. No data.	No data.	
7631-95-0 Recommende Limits: Respiratory Ec (Specify Type)	Sodium molybdate d Exposure quipment	e(VI) No occupational ex	No data.	No data.		
Recommende Limits: Respiratory Ec (Specify Type)	d Exposure quipment	No occupational ex			No data.	
Limits: Respiratory Ec (Specify Type)	quipment	·	posure limits have been es	tablished for this mixture.	•	
(Specify Type)		A respiratory protect				
Evo Protoction		A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. If the respirator is the sole means of protection, use a full-face supplied air respirator.				
Eye Protection:		Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.				
Protective Gloves:		Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.				
		Waterproof gloves required for this product.				
		This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers.				
Other Protective Clothing:		Wear long sleeve shirt and long pants, waterproof gloves and shoes plus socks. Keep and wash PPE separately from other laundry.				
		comfortable working	n is usually adequate. Local exhaust could be used for safer, ng conditions. An eye bath and washing facilities should be readily			
Work/Hygienic Practices:	/ork/Hygienic/Maintenance Users should wash hands before eating, drinking, chewing gum, using tobacco ractices: the toilet. Remove all dirty or contaminated clothing and wash it before reusing as any other PPE.					
Environmental Exposure Controls:		Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment wash water.				

	9. Physical and Chemical Properties
Physical States:	[]Gas [X]Liquid []Solid
Appearance and Odor:	Magenta, clear liquid. Proprietary odor.
pH:	2.5 - 4.5
Melting Point:	N.E.
Boiling Point:	N.E.
Flash Pt:	N.A.
Evaporation Rate:	N.E.
Flammability (solid, gas):	Non-flammable.
Explosive Limits:	LEL: N.A. UEL: N.A.
Vapor Pressure (vs. Air or mm Hg):	N.E.
Vapor Density (vs. Air = 1):	N.E.
Specific Gravity (Water = 1):	1.21 - 1.25
Density:	~ 10.2 LB/GA
Solubility in Water:	Soluble
Saturated Vapor Concentration:	N.E.
Octanol/Water Partition Coefficient:	N.E.
Autoignition Pt:	N.A.
Decomposition	N.E.
Temperature:	
Viscosity:	N.E.
Explosive Properties:	Not an explosion hazard.
Oxidizing Properties:	Not an oxidizer.
Information with regard to primary physical hazard:	
	10. Stability and Reactivity
Reactivity:	N.A.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	High heat. Mixture with incompatible materials.
Incompatibility - Materials To Avoid:	No data available.
Hazardous Decomposition or Byproducts:	Ammonia gas.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	None known.
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Revision: 07/29/2022 Supersedes Revision: 04/28/2022

	11. Toxicological Information			
Toxicological Information:	 Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans. However, they are being investigated as mutagenic agents. Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans. Teratogenicity: The components of this product are not reported to produce teratogenic effects in humans. Reproductive Toxicity: The components of this product are not reported to produce toxic reproductive effects in humans. However, urea is being investigated as a reproductive effector. 			
Sensitization:	The sensitizing properties of this product have not been thoroughly investigated.			
Carcinogenicity/Other Information:	he carcinogenic properties of this product have not been thoroughly investigated.			
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No			
	12. Ecological Information			
General Ecological Information:	The available data on this material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at eliminating environmental contamination. Any waste due to spillage or leakage should be contained and disposed of accordingly, see above under Section 6 "Accidental Release Measures."			
	This product contains molybdenum; it is to be used only on crops that respond to molybdenum. Crops high in molybdenum are toxic to grazing animals (ruminants).			
	Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.			
Results of PBT and vPvB assessment:	No data available.			
Persistence and Degradability:	No data available.			
Bioaccumulative Potential:	No data available.			
Mobility in Soil:	No data available.			
	13. Disposal Considerations			
Waste Disposal Method:	This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority. Avoid contaminating water by disposal of equipment wash waters or other product wastes. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.			

Page: 6 of 6

				Sup	erseues (revision, 04/20/2022	
LAND TRANS	SPORT (US DOT):				
DOT Prope DOT Hazaı UN/NA Nui		e: Not Regulated. ⁻	Trade Name: BIO-HOLD			
	mber: NSPORT (IMDG	/IMO)·				
	Shipping Name		Trade Name: BIO-HOLD			
UN Numbe		. Not Regulated.	Packing (
Hazard Class:		racking Group.				
	ORT (ICAO/IATA	\):				
UN Number:		: Not Regulated.	lot Regulated. Trade Name: BIO-HOLD Packing Group:			
Hazard Cla		Danastahla Overstit				
Additional Tr Information:	ransport	Reportable Quantity	/: N.A.			
internation.		Placards / Markings	:: N.A.			
			.			
			se Guide Number: N.A.			
			ulatory Information	on		
	-		tion Act of 1986) Lists			
CAS #	Components (Cl	hemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
2223656-17-3	Cobalt EAHP		No	No	No	
57-13-6	Urea		No	No	No	
1310-58-3	Potassium hydrox		No	Yes NA	No	
7631-95-0	Sodium molybdat	te(VI)	No	No	No	
Regulatory In	formation:	· ·	compliance with inventor	y requirements fo	r commercial purposes.	
Revision Date	9:	07/29/2022	Previous I	evision:	04/28/2022	
Hazard Ratin	a Svetom:	Flammability				
nazaru kaun	g System.					
			Health			
			NFPA:	Special Hazard		
			NFFA.			
Additional Inf This Product:		No data available.				
Company Pol		Stoller believes the i	information contained in t	his Safety Data S	heet is accurate based on	
Disclaimer:	-	the information provided by reputable suppliers of our raw materials. However, Stoller does not guarantee their accuracy or completeness. The information contained herein is				
		furnished without warranty of any kind, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for any particular				
		the goods the merc		or the fitness of th	e doods for any particiliar	
		-	hantability of the goods, o			
		purpose. Users show gathered by them ar	hantability of the goods, o uld consider these data o nd must make independe	nly as a supplement determination of	ent to other information of suitability and	
		purpose. Users show gathered by them ar completeness of info	hantability of the goods, o uld consider these data o nd must make independe ormation from all sources	nly as a supplement nt determination of to assure proper	ent to other information of suitability and use and disposal of these	
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		purpose. Users show gathered by them ar completeness of info materials and the sa	hantability of the goods, o uld consider these data o nd must make independe ormation from all sources afety and health of employ ults obtained or for incide	nly as a supplement nt determination of to assure proper vees and custome	ent to other information of suitability and use and disposal of these ers. Stoller assumes no	